

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/048943 A3

(51) International Patent Classification⁷: C12N 15/63,
15/74, 15/00, 5/00, A61K 48/00

(21) International Application Number:
PCT/US2004/038022

(22) International Filing Date:
15 November 2004 (15.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/519,498 13 November 2003 (13.11.2003) US

(71) Applicant (for all designated States except US):
SLOAN-KETTERING INSTITUTE FOR CAN-
CER RESEARCH [US/US]; 1275 York Avenue, New
York, NY 10021 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GREGOR, Polly
[US/US]; 400 Riverside Drive, Apt.6D, New York, NY
10025 (US). HOUGHTON, Alan [US/US]; 1233 York Av-
enue, Apt. 23B, New York, NY 10025 (US). CONCETTI,
Antonio [IT/IT]; Via del Bastione, 3 I-62036 Camerino
(IT). VENANZI, Franco, Maria [IT/IT]; Via Camerini #2
I-62032 Camerino (IT).

(74) Agent: ADLER, Benjamin, A.; Adler & Associates, 8011
Candle Lane, Houston, TX 77071 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
29 December 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS AND METHODS FOR SYNERGISTIC INDUCTION OF ANTITUMOR IMMUNITY

(57) Abstract: The present invention discloses a synergistic effect between vaccines encoding tumor-associated antigen and vaccines encoding tumor endothelial marker (8) (TEM8). Potent antitumor immunity was generated by the combined use of these vaccines. Tumor supported by vasculature and for which a tumor-associated antigen has been defined can be treated with this approach.



WO 2005/048943 A3